

- PATENT COOPERATION TREAT

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ABL-015-PCT	FOR FURTHER see Notification (Form PCT/ISA/	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/BE 03/00194	07/11/2003	08/11/2002
Applicant ABLYNX N.V.		
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching Aut transmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consis It is also accompanied b	ts of a total of <u>6</u> sheets. by a copy of each prior art document cited in this	report.
1. Basis of the report		
 a. With regard to the language, the language in which it was filed, u 	e international search was carried out on the bas nless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b)).	was carried out on the basis of a translation of the	ne international application furnished to this
 b. With regard to any nucleotide a was carried out on the basis of the 	and/or amino acid sequence disclosed in the in	ternational application, the international search
	ional application in written form.	
filed together with the int	ternational application in computer readable form	1.
X furnished subsequently t	to this Authority in written form.	
X furnished subsequently t	to this Authority in computer readble form.	
	ubsequently furnished written sequence listing do as filed has been furnished.	pes not go beyond the disclosure in the
X the statement that the inf furnished	formation recorded in computer readable form is	identical to the written sequence listing has been
2. X Certain claims were for	und unsearchable (See Box I).	
3. Unity of invention is lac	cking (see Box II).	
4. With regard to the title,		
X the text is approved as s	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as follows:	
5. With regard to the abstract,		
	ubmitted by the applicant.	
the text has been establis	shed, according to Rule 38.2(b), by this Authority e date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be pub		1
as suggested by the appl	icant.	None of the figures.
X because the applicant fai	led to suggest a figure.	-
because this figure better	characterizes the invention.	

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International Application No PCT/BE 03/00194

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K16/24 C07K16/28 C12N15/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, MEDLINE, EMBASE

Catanamin	Chatian of demands with the state of the sta		
Category ^e	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Υ	WO 99/09055 A (INNOGENETICS NV ;SABLON	1-7,11,	
D,	ERWIN (BE); BUYSE MARIE ANGE (BÉ)) 25 February 1999 (1999-02-25)	14-21,	
	page 24, line 25-28	25–49	
	page 26, last paragraph -page 27,		
	paragraph 1		
Y	MUYLDERMANS S: "SINGLE DOMAIN CAMEL	1-3,11,	
02	ANTIBODIES: CURRENT STATUS"	14-21,	
.J.	REVIEWS IN MOLECULAR BIOTECHNOLOGY, ELSEVIER, AMSTERDAM,, NL,	25-49	
İ	vol. 74, no. 4, June 2001 (2001–06), pages		
	277-302, XP001057480		
	ISSN: 1389-0352 page 280, left-hand column, paragraph 1		
1	-page 296, right-hand column, paragraph 1		
'	page 296, right-hand column -page 297,	4–7	
ł	right-hand column, paragraph 1; table 1		

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 5 May 2004	Date of mailing of the international search report 08/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer ALCONADA RODRIG, A

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		CT/BE 03/00194		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WO 90/10707 A (JONKER MARGREET ;MEIDE PETRUS HENDRIKUS V D (NL)) 20 September 1990 (1990-09-20) page 3, paragraph 2 page 4, last paragraph -page 5, paragraph 1	8,12,13		
02	WO 99/23221 A (HOWELL STEVEN ;UNILEVER PLC (GB); LEDEBOER ADRIANUS MARINUS (NL);) 14 May 1999 (1999-05-14) claim 10	9,10		
	ELS CONRATH K ET AL: "Camel single-domain antibodies as modular building units in bispecific and bivalent antibody constructs" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 276, no. 10, 9 March 2001 (2001-03-09), pages 7346-7350, XP002248402 ISSN: 0021-9258 the whole document	4-13		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 22-24 (complete) and 25-26 and 39 (in part)

Present claims 22-24 (completely) and 25, 26 and 39 (in part) relate to an agent defined by reference to a desirable characteristic or property, namely, that it can be identified according to the methods of claims 18-20. The claims cover all agents having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for none of such agents. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the agent by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search of the claimed scope impossible. Consequently, the search has not been carried out for those claims or parts thereof.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

Box I Ob	servations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Internat	ional Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ Clai	rms Nos.: ause they relate to subject matter not required to be searched by this Authority, namely:
į tr	though claims 25, 27, 29, 31, 33, 35, 37 and 39 are directed to a method of eatment of the human/animal body, the search has been carried out and based the alleged effects of the compound/composition.
beca	ms Nos.: 22-24 (complete) and 25-26 and 39 (in part) ause they relate to parts of the International Application that do not comply with the prescribed requirements to such stent that no meaningful International Search can be carried out, specifically:
see	FURTHER INFORMATION sheet PCT/ISA/210
3. Clain beca	ns Nos.: use they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Obs	ervations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Internatio	nal Searching Authority found multiple inventions in this international application, as follows:
1. As all search	required additional search fees were timely paid by the applicant, this International Search Report covers all hable claims.
2. As all	searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment additional fee.
or arry	additional ree.
3. As onl covers	y some of the required additional search fees were timely paid by the applicant, this International Search Report sonly those claims for which fees were paid, specifically claims Nos.:
4. No req	puired additional search fees were timely paid by the applicant. Consequently, this International Search Report is led to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Pro	test The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
	parties are supplied the payment of additional Seaton lees.

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Information on patent family members

International Application No PCT/BE 03/00194

Patent document cited in search repor		Publication date		Patent family member(s)	Publication date
WO 9909055	Α	25-02-1999	AU	9262598 A	08-03-1999
			CA	2297692 A1	25-02-1999
			WO	9909055 A2	25-02-1999
			EP	1015480 A2	05-07-2000
			US	2003099648 A1	29-05-2003
			US	6350860 B1	26-02-2002
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			CA	2011893 A1	09-09-1990
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			ΕP	0387095 A1	12-09-1990
			GB	2247837 A ,B	18-03-1992
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			ZA	9001854 A	27-11-1991
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			BR	9813276 A	22-08-2000
			CN	1278300 T	27-12-2000
			WO	9923221 A2	14-05-1999
			EP	1027439 A2	16-08-2000
			US	2003092892 A1	15-05-2003